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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/643,948 | 08/23/2000 | Kaori Yasufuku | 2423-6 | 9826 |

22204 7590 12/19/2001

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EXAMINER

FIGUEROA, FELIX O

ART UNIT

PAPER NUMBER

2833

DATE MAILED: 12/19/2001

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/643,948

Applicant(s)

YASUFUKU ET AL.

Examiner

Felix O. Figueroa

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 November 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s) _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 13 6) ☐ Other: _____

DETAILED ACTION

Continued Prosecution Application

The request filed on 11/13/01 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 09/643,948 is acceptable and a CPA has been established. An action on the CPA follows.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-4, 9, 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tondreault (US 5,769,668) in view of Geib (US 4,761,140).

Tondreault discloses a connector body (10) having a receiving part (14) having a contacts (20) provided in a groove that contact the conductive pad on top and bottom surfaces of the a module, a supporting part (24,26) which extends rearward from the receiving part, and a positioning mechanism (28,30) to hold a module in a forward-rearward direction. Tondreault discloses substantially the claimed invention except for metallic cover.

Geib teaches the use of a hinged, removable, metallic cover (14) including first connection means (102) and second connection means (98), to keep a module in place. Therefore, it would have been obvious to a person of ordinary skill in the art at the time

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the invention was made to use a cover, as taught by Geib, to keep the module from moving from the connecting position.

Alternatively, Geib shows that a metallic cover (14) including first connection means (102) and second connection means (98) is an equivalent structure known in the art for retaining structure of Tondreault. Therefore, because these two retention structures were art-recognized equivalents at the time the invention was made, one of ordinary skill in the art would have found it obvious the substitution of the retention structure of Tondreault for a metallic cover of Geib to keep the module from moving from the connecting position.

Claims 5, 6, 10, 11, 16, 17 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tondreault and Geib as applied to claims 4, 9 and 15 above, and further in view of Loo et al. (US 5,648,890).

Loo teaches the use of a cover (16) having a window (38) and a heat sink (20) in the window covering a conductive member (12) to dissipate the heat from the conductive member. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to use a heat sink covering a conductive member, as taught by Loo, to perform a heat dissipation function.

Claims 7, 8, 12, 13, 18 and 19 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Tondreault and Geib as applied to claims 4, 9 and 15 above, and further in view of Cronin et al. (US 6,246,583).

Cronin teaches a cover including a contacting part to transfer the thermal energy to a heat sink (211). It would have been obvious to a person having ordinary skill in the

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art at the time the invention was made to use a contacting part, as taught by Cronin, to transfer the thermal energy to the heat sink.

Response to Arguments

Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new grounds of rejection.

Regarding applicant's argument regarding the Response to Arguments in the prior office action, please note that the motivation, in this case, is shown by the secondary reference. Additionally, it is understood that one having ordinary skill in the art would have found obvious and desirable the property of redundancy, and that the basis for this is presented by the definition of "redundancy", defined by The American Heritage® Dictionary of the English Language, Fourth Edition as "Duplication or repetition of elements in electronic equipment to provide alternative functional channels in case of failure." Copyright © 2000 by Houghton Mifflin Company.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Matsuoka et al. (US 5,109,980) teaches a cover attached to the base part and the side arms. Obara et al. (US 6,308,772) teaches a heat sink (8) attached to conductive part of a cover (8').

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Felix O. Figueroa whose telephone number is (703) 308-0097. The examiner can normally be reached on Mon.-Fri., 8:00-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Bradley can be reached on (703) 308-2319. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.



Gary Paumen
Primary Examiner

ffr
December 8, 2001